



TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT 17

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October 21, 2016

MEMORANDUM

To: ALL BUILDERS AND PLUMBERS PERFORMING WORK WITH WCID #17

Re: GRINDER PUMP SYSTEM INSTALLATION AND START UP INSPECTION

1. Grinder Pump start up fees are \$250.00 for Residential and \$500.00 for Commercial. ***These fees are in addition to any permit and/or inspections fees associated with the property.*** Start up re-inspection fees will be charged \$50.00 each. These fees must be paid prior to any construction commencing.
2. Grinder pump systems must pass inspection before a building may be occupied. Only one inspection should be required unless the installation is incorrect in some way and requires a re-inspection. **Installation should strictly follow your E-One representative's instructions.**
3. Start up and grinder pump inspections are conducted by WCID 17 Staff. **TO SCHEDULE AN INSPECTION, CALL HUD BONIN AT 512-748-2104.** The system should be complete and ready to run when calling to schedule.
4. The plumber, electrician and builder must all be present at the inspection, but it is not necessary to have a manufacturer's representative there.

Residential

1. Residential Grinder Pumps to be E-One Systems in accordance with WCID17 Standard Details for Simplex or Duplex Grinder Pump Station (as applicable) and Grinder Pump Station Control Panel.
2. Note that the systems specified by WCID 17 have a check valve installed internal to the tank (on the pump) and do not require an additional check valve to be installed outside the wet well.
3. 1 ¼" male iron pipe braided stainless steel discharge piping installed on outlet side of GP tank.
4. Second Vent: 3" pipe sized vent to be installed from the upper 1/3 of GP tank.
5. **Residential establishments with seven or more bathrooms must install a dual pump system.**

Commercial

1. All Commercial establishments slated to install grinder systems must follow WCID17 Commercial Grinder Pump Station Standard and have dual centrifugal grinder pumps. No positive displacement pumps allowed. Pumps shall be as manufactured by Wilo, Barnes or ABS.
2. Optional – Commercial grinder systems may be equipped with a transmission device that will relay a warning signal to the client's telephone.

WCID #17 E/One Grinder Pump Start-Up

Inspection Date: _____	Serial Number: #1 _____
Note: Seven (7) or more Bathrooms Require Duplex Grinder Station _____	#2 _____
Address / Project _____	Result: (Circle One) PASS FAIL
Plumber _____	WCID #17 Tech _____
Rec'd By _____	Inspection Fees = \$250.00 Residential Reinspection Fees = \$50.00 per Reinspection

Please answer the following questions by checking "yes" or "no" in the boxes provided below.

- | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------|----|--------------------------|
| 1. All miscellaneous debris removed from inlet pipe and basin before start up? (Must be clean) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 2. Discharge assembly to be installed by Diagram (1½ " discharge only) in Figure 1. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 3. All valves (residential/main) opened before start-up? (Valve to tank) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 4. Basin installed 8" above finished grade?
NOTE: (1) Fiberglass Basin Extension NOT TO EXCEED 12" may be installed to grinder pump station to achieve required height. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 5. Center of the inlet pipe a minimum of 30" from the bottom of the basin? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 6. Mushroom vent installed? (Must be 10' min from operable window.) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 7. Inlet grommet installed correctly inside? (Figure 3) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 8. Supply cable installed with 1" PVC electrical conduit?
Conduit to be inspected at start up. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 9. Conduit buried 18" maximum from finished grade? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 10. EQD plug secured properly using the EQD Hanger? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 11. Cord Grip Connector installed properly? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 12. Check pump 6 times. If there are double pumps, put switch on both/fast for 1 of the run times | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 13. Equalizer installed correctly? (Figure 1 or 5) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 14. All conduits sealed to prevent moisture damage to electrical components? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 15. Verify yellow nylon rope is attached to pump and secure at the top of the fiberglass basin? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 16. All Electrical, Operational, and Start-Up Test performed as shown on pages 9 and 10 in the installation manual? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 17. Control box 48" above finished grade? (Bottom of box) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 18. Red light on control box must be seen from the road from front of the house? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 19. Labeled 30 AMP breaker in front of panel box (dedicated circuit). | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 20. Penetration to electric panel on bottom only? | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |
| 21. Only 6" of electric line left in panel as slack. EQD must reach top of wet well not to exceed 24" past the lid. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> |

1. AMPS @ Start-Up _____	Volts @ Start-Up _____
2. AMPS @ Start-Up _____	Volts @ Start-Up _____
(Between 5 - 8)	(Between 216 - 264)

***** ALL CORRECTIONS MUST BE MADE AND REINSPECTED WITHIN 10 DAYS OF THIS INSPECTION NOTICE**

Failure to report and/or repair problems will result in loss of warranty.
(Please initial)